

CLAIMS

1. A transflective liquid crystal display comprising a pair of substrates disposed opposite to each other with a liquid crystal layer held therebetween, a reflection means using ambient light as a light source, a backlight source, and a color filter having a transmissive region and a reflective region which are provided in each picture element of the color filter and which have colored layers comprising a single material, a three-peak type LED backlight source being used as the backlight source.

2. The transflective liquid crystal display according to claim 1, wherein the color filter includes the picture elements of at least one color in each of which the colored layers of the transmissive region and the reflective region have the same thickness, and an aperture is formed in the reflective region.

3. The transflective liquid crystal display according to claim 1, wherein the color filter includes the picture elements of at least one color in each of which the colored layers of the reflective region and the transmissive region have different thicknesses.

4. The transflective liquid crystal layer according to

claim 3, wherein the color filter has the aperture formed in each of the reflective regions.

5. A color filter for a liquid crystal display comprising transmissive regions and reflective regions, wherein at least two types of colored layers are deposited in the transmissive region of each of picture elements of at least one color.

6. The color filter for a liquid crystal display according to claim 5, wherein a first colored layer is formed in each transmissive region, and a second colored layer is formed on the first colored layer and in each reflective region.

7. The color filter for a liquid crystal display according to claim 5, wherein a first colored layer is formed in each of the transmissive regions and the reflective regions, and a second colored layer is formed on the first colored layer in each transmissive region.

8. The color filter for a liquid crystal display according to claim 5, wherein the transmissive region and the reflective region in each of the picture elements of at least one color comprise a single coloring agent, and each

of the reflective regions has an aperture region.

9. The color filter for a liquid crystal display according to claim 5, wherein green colored layers having different pigment compositions are laminated.

10. The color filter for a liquid crystal display according to claim 5, wherein red colored layers having different pigment compositions are laminated.

11. The color filter for a liquid crystal display according to claim 10, wherein a red colored layer containing a pigment having a quinacridone skeleton is laminated on another red colored layer.

12. The color filter for a liquid crystal display according to claim 5, wherein blue colored layers having different pigment compositions are laminated.

13. The color filter for a liquid crystal display according to claim 5, a single colored layer is laminated on a blue colored layer and a red colored layer so that the area of a coloring agent laminated on the blue colored layer is smaller than that laminated on the red colored layer.

14. The color filter for a liquid crystal display according to claim 5, wherein an over coat layer is deposited on the colored layers.

15. The color filter a liquid crystal display according to claim 5, wherein the color filter does not have a picture element having a chromaticity difference δ satisfying the relation below between transmissive region chromaticity (x_0, y_0) and reflective region chromaticity (x, y):

$$\delta = (x - x_0)^2 + (y - y_0)^2 \geq 1 \times 10^{-3}$$

16. A transflective liquid crystal display comprising the color filter according to claim 5.